

## SEQUENCE LISTING

<110> C. Frank Bennett  
Lex M. Cowser

<120> ANTISENSE MODULATION OF SHH EXPRESSION

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<213> Homo sapiens

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cagctcggaa gtcacagtt ccatgggcga g atg ctg ctg ctg gcg aga tgt 172  
Met Leu Leu Leu Ala Arg Cys  
1 5

ctg ctg cta gtc ctc gtc tcc tcg ctg ctg gta tgc tcg gga ctg gcg 220  
Leu Leu Leu Val Leu Val Ser Ser Leu Leu Val Cys Ser Gly Leu Ala  
10 15 20

tgc gga ccg ggc agg ggg ttc ggg aag agg agg cac ccc aaa aag ctg 268  
Cys Gly Pro Gly Arg Gly Phe Gly Lys Arg Arg His Pro Lys Lys Leu  
25 30 35

acc cct tta gcc tac aag cag ttt atc ccc aat gtg gcc gag aag acc	316
Thr Pro Leu Ala Tyr Lys Gln Phe Ile Pro Asn Val Ala Glu Lys Thr	
40 45 50 55	
cta ggc gcc agc gga agg tat gaa ggg aag atc tcc aga aac tcc gag	364
Leu Gly Ala Ser Gly Arg Tyr Glu Gly Lys Ile Ser Arg Asn Ser Glu	
60 65 70	
cga ttt aag gaa ctc acc ccc aat tac aac ccc gac atc ata ttt aag	412
Arg Phe Lys Glu Leu Thr Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys	
75 80 85	
gat gaa gaa aac acc gga gcg gac agg ctg atg act cag agg tgt aag	460
Asp Glu Glu Asn Thr Gly Ala Asp Arg Leu Met Thr Gln Arg Cys Lys	
90 95 100	
gac aag ttg aac gct ttg gcc atc tcg gtg atg aac cag tgg cca gga	508
Asp Lys Leu Asn Ala Leu Ala Ile Ser Val Met Asn Gln Trp Pro Gly	
105 110 115	
gtg aaa ctg cgg gtg acc gag ggc tgg gac gaa gat ggc cac cac tca	556
Val Lys Leu Arg Val Thr Glu Gly Trp Asp Glu Asp Gly His His Ser	
120 125 130 135	
gag gag tct ctg cac tac gag ggc cgc gca gtg gac atc acc acg tct	604
Glu Glu Ser Leu His Tyr Glu Gly Arg Ala Val Asp Ile Thr Thr Ser	
140 145 150	
gac cgc gac cgc agc aag tac ggc atg ctg gcc cgc ctg gcg gtg gag	652
Asp Arg Asp Arg Ser Lys Tyr Gly Met Leu Ala Arg Leu Ala Val Glu	
155 160 165	
gcc ggc ttc gac tgg gtg tac tac gag tcc aag gca cat atc cac tgc	700
Ala Gly Phe Asp Trp Val Tyr Tyr Glu Ser Lys Ala His Ile His Cys	
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tcg gtg aaa gca gag aac tcg gtg gcg gcc aaa tcg gga ggc tgc ttc	748
Ser Val Lys Ala Glu Asn Ser Val Ala Ala Lys Ser Gly Gly Cys Phe	
185 190 195	
ccg ggc tcg gcc acg gtg cac ctg gag cag ggc ggc acc aag ctg gtg	796
Pro Gly Ser Ala Thr Val His Leu Glu Gln Gly Gly Thr Lys Leu Val	
200 205 210 215	
aag gac ctg agc ccc ggg gac cgc gtg ctg gcg gcg gac gac cag ggc	844
Lys Asp Leu Ser Pro Gly Asp Arg Val Leu Ala Ala Asp Asp Gln Gly	
220 225 230	
cgg ctg ctc tac agc gac ttc ctc act ttc ctg gac cgc gac gac ggc	892
Arg Leu Leu Tyr Ser Asp Phe Leu Thr Phe Leu Asp Arg Asp Asp Gly	
235 240 245	
gcc aag aag gtc ttc tac gtg atc gag acg cgg gag ccg cgc gag cgc	940
Ala Lys Lys Val Phe Tyr Val Ile Glu Thr Arg Glu Pro Arg Glu Arg	
250 255 260	
ctg ctg ctc acc gcc gcg cac ctg ctc ttt gtg gcg ccg cac aac gac	988
Leu Leu Leu Thr Ala Ala His Leu Leu Phe Val Ala Pro His Asn Asp	

265	270	275	
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Ser Ala Thr Gly Glu Pro Glu Ala Ser Ser Gly Ser Gly Pro Pro Ser			
280	285	290	295
ggg ggc gca ctg ggg cct cgg gcg ctg ttc gcc agc cgc gtg cgc ccg			1084
Gly Gly Ala Leu Gly Pro Arg Ala Leu Phe Ala Ser Arg Val Arg Pro			
	300	305	310
ggc cag cgc gtg tac gtg gtg gcc gag cgt gac ggg gac cgc cgg ctc			1132
Gly Gln Arg Val Tyr Val Val Ala Glu Arg Asp Gly Asp Arg Arg Leu			
	315	320	325
ctg ccc gcc gct gtg cac agc gtg acc cta agc gag gag gcc gcg ggc			1180
Leu Pro Ala Ala Val His Ser Val Thr Leu Ser Glu Glu Ala Ala Gly			
	330	335	340
gcc tac gcg ccg ctc acg gcc cag ggc acc att ctc atc aac cgg gtg			1228
Ala Tyr Ala Pro Leu Thr Ala Gln Gly Thr Ile Leu Ile Asn Arg Val			
	345	350	355
ctg gcc tcg tgc tac gcg gtc atc gag gag cac agc tgg gcg cac cgg			1276
Leu Ala Ser Cys Tyr Ala Val Ile Glu Glu His Ser Trp Ala His Arg			
	360	365	370
gcc ttc gcg ccc ttc cgc ctg gcg cac gcg ctc ctg gct gca ctg gcg			1324
Ala Phe Ala Pro Phe Arg Leu Ala His Ala Leu Leu Ala Ala Leu Ala			
	380	385	390
ccc gcg cgc acg gac cgc ggc ggg gac agc ggc ggc ggg gac cgc ggg			1372
Pro Ala Arg Thr Asp Arg Gly Gly Asp Ser Gly Gly Gly Asp Arg Gly			
	395	400	405
ggc ggc ggc ggc aga gta gcc cta acc gct cca ggt gct gcc gac gct			1420
Gly Gly Gly Gly Arg Val Ala Leu Thr Ala Pro Gly Ala Ala Asp Ala			
	410	415	420
ccg ggt gcg ggg gcc acc gcg ggc atc cac tgg tac tcg cag ctg ctc			1468
Pro Gly Ala Gly Ala Thr Ala Gly Ile His Trp Tyr Ser Gln Leu Leu			
	425	430	435
tac caa ata ggc acc tgg ctc ctg gac agc gag gcc ctg cac ccg ctg			1516
Tyr Gln Ile Gly Thr Trp Leu Leu Asp Ser Glu Ala Leu His Pro Leu			
	440	445	450
ggc atg gcg gtc aag tcc agc tga agccgggggg ccgggggagg ggcgcgggag			1570
Gly Met Ala Val Lys Ser Ser *			
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1576

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&lt;211&gt; 21

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